

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 58055253  
PUBLICATION DATE : 01-04-83

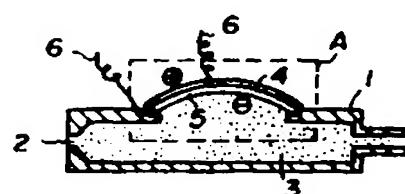
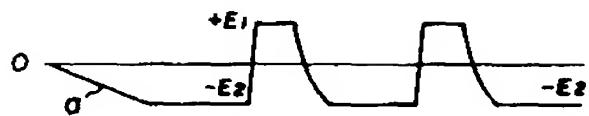
APPLICATION DATE : 29-09-81  
APPLICATION NUMBER : 56155495

APPLICANT : RICOH CO LTD;

INVENTOR : ISAYAMA TAKUO;

INT.CL. : B41J 3/04

TITLE : DRIVING METHOD FOR  
ELECTROSTRICKTION VIBRATOR IN  
INK JET RECORDER



ABSTRACT : PURPOSE: To enable the reduction in a voltage-withstand of an electrostriction vibrator and to enable the dense arrangement and miniaturization of heads, by a method wherein a bias displacement is applied to an electrostriction vibrator at a non-recording and waiting time, and the electrostriction vibrator is brought into a displacement action from a bias displacement state when a recording takes place.

CONSTITUTION: A bias voltage of  $-E$  volt is applied to an electrostriction vibrator 4 at a non-recording and waiting time, and with this the electrostriction vibrator 4 is displaced so that an ink liquid chamber 3 is increased in a capacity. If, at a recording time, a pulse voltage, corresponding to a printing information signal, is applied to an input terminal of an electrostriction vibrator drive circuit, the electrostriction vibrator suddenly changes and is brought into a stat to allow the liquid chamber 3 to be reduced in the capacity, and ink drops are jetted through a nozzle hole 2.

COPYRIGHT: (C)1983,JPO&Japio